

## MARKSCHEME - SL MEASUREMENT SYNC

P1B Q1: 24.10 +/- 0.10 cm<sup>3</sup>. Q2: Outlier [1]; R<sup>2</sup> of 0.994 indicates high consistency/low random error [1].

P2 Q2: Intercept = Systematic (crucible mass) [1]; R<sup>2</sup> of 0.984 confirms precision [1].

P2 Q3: Total % Unc = 0.02% + 0.2% = 0.22% [3].

P2 Q4: % Unc = 4.4%; % Error = 22.4%; Systematic error is significant [4].

P2 Q5: No effect on final concentration as total volume is filled to the mark [1]; Random error if amount varies [1]; Procedural [1].